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1/25

1 AAGCTTCTAG TTTTCTTTTC CCGGTGACAT CGTGGAAAGC ACTAGCATCT
51 CTAAGCAATG ATCTGTGACA ATATTCACAG TGTAATGCCA TCCAGGGAAC
101 TCAACTGAGC CTTGATGTCC AGAGATTTTT GTGTTTTTTT CTGAGACTGA
151 GTCTCGCTCT GTGCCAGGCT GGAGTGCAGT GGTGCAACCT TGGCTCACTG
201 CAAGCTCCGC CTCCTGGGTT CACGCCATTC TCCTGCCTCA GCCTCCTGAG
251 TAGCTGGGAC TACAGGCACC CGCCACCACG CCTGGCTAAT TTTTTTGTAT
301 TTTTAGTAGA GATGGGGTTT CACTGTGTTA GCCAGGATGG TCTCAGTCTC
351 CTGACCTCGT GATCTGCCCA CCTTGGCCTC CCAAAGTGCT GGGATGACAG
401 GCGTGAGCCA CCGCGCCTGG CCGATATCCA GAGATTTTTT GGGGGGCTCC
451 ATCACACAGA CATGTTGACT GTCTTCATGG TTGACTTTTA GTATCCAGCC
501 CCTCTAGAAA TCTAGCTGAT ATAGTGTGGC TCAAAACCTT CAGCACAAAT
551 CACACCGTTA GACTATCTGG TGTGGCCCAA ACCTTCAGGT GAACAAAGGG
601 ACTCTAATCT GGCAGGATAT TCCAAAGCAT TAGAGATGAC CTCTTGCAAA
651 GAAAAAGAAA TGGAAAAGAA AAAGAAAGAA AGGAAAAAAA AAAAAAAAAA
701 GAGATGACCT CTCAGGCTCT GAGGGGAAAC GCCTGAGGTC TTTGAGCAAG
751 GTCAGTCCTC TGTTGCACAG TCTCCCTCAC AGGGTCATTG TGACGATCAA
801 ATGTGGTCAC GTGTATGAGG CACCAGCACA TGCCTGGCTC TGGGGAGTGC
851 CGTGTAAGTG TATGCTTGCA CTGCTGAATG CTTGGGATGT GTCAGGGATT
901 ATCTTCAGCA CTTACAGATG CTCATCTCAT CCTCACAGCA TCACTATGGG
951 ATGGGTATTA CTGGCCTCAT TTGATGGAGA AAGTGGCTGT GGCTCAGAAA
1001 GGGGGGACCA CTAGACCAGG GACACTCTGG ATGCTGGGGA CTCCAGAGAC
1051 CATGACCACT CACCAACTGC AGAGAAATTA ATTGTGGCCT GATGTCCCTG
1101 TCCTGGAGAG GGTGGAGGTG GACCTTCACT AACCTCCTAC CTTGACCCTC

Fig.1

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1151 TCTTTTAGGG CTCTTTCTGA CCTCCACCAT GGTACTAGGA CCCCATTGTA
1201 TTCTGTACCC TCTTGACTCT ATGACCCCCA CTGCCCCACTG CATCCAGCTG
1251 GGTCCCCTCC TATCTCTATT CCCAGCTGGC CAGTGCAGTC TCAGTGCCCA
1301 CCTGTTTGTC AGTAACTCTG AAGGGGCTGA CATTTTACTG ACTTGCAAAC
1351 AAATAAGCTA ACTTTCCAGA GTTTTGTGAA TGCTGGCAGA GTCCATGAGA
1401 CTCCTGAGTC AGAGGCCAAG GCTTTTACTG CTCACAGCTT AGCAGACAGC
1451 ATGAGGTTCA TGTTACATT ATACACCTT GCCCCCCCCA AATCTTGTAG
1501 GGTGACCAGA GCAGTCTAGG TGGATGCTGT GCAGAAGGGG TTTGTGCCAC
1551 TGGTGAGAAA CCTGAGATTA GGAATCCTCA ATCTTATACT GGGACAACTT
1601 GCAAACCTGC TCAGCCTTTG TCTCTGATGA AGATATTATC TTCATGATCT
1651 TGGATTGAAA ACAGACCTAC TCTGGAGGAA CATATTGTAT CGATTGTCCT
1701 TGACAGTAAA CAAATCTGTT GTAAGAGACA TTATCTTTAT TATCTAGGAC
1751 AGTAAGCAAG CCTGGATCTG AGAGAGATAT CATCTTGCAA GGATGCCTGC
1801 TTTACAAACA TCCTTGAAAC AACAAATCCAG AAAAAAAG GTGTTGCTGT
1851 CTTTGCTCAG AAGACACACA GATACGTGAC AGAACCATGG AGAATTGCCT
1901 CCCAACGCTG TTCAGCCAGA GCCTTCCACC CTTGTCTGCA GGACAGTCTC
1951 AACGTTCCAC CATTAAATAC TTCTTCTATC ACATCCTGCT TCTTTATGCC
2001 TAACCAAGGT TCTAGGTCCC GATCGACTGT GTCTGGCAGC ACTCCACTGC
2051 CAAACCCAGA ATAAGGCAGC GCTCAGGATC CCGAAGGGGC ATGGCTGGGG
2101 ATCAGAACTT CTGGGTTTGA GTGAGGAGTG GGTCCACCCT CTTGAATTTC
2151 AAAGGAGGAA GAGGCTGGAT GTGAAGGTAC TGGGGGAGGG AAAGTGTGAG
2201 TTCCGAAGTC TTAGGTCAAT GAGGGAGGAG ACTGGTAAGG TCCCAGCTCC
2251 CGAGGTACTG ATGTGGGAAT GGCCTAAGAA TCTCATATCC TCAGGAAGAA
2301 GGTGCTGGAA TCCTGAGGGG TAGAGTTCTG GGTATATTTG TGGCTTAAGG

Fig.1 (Cont.)

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2351 CTCTTTGGCC CCTGAAGGCA GAGGCTGGAA CCATTAGGTC CAGGGTTTGG
2401 GGTGATAGTA ATGGGATCTC TTGATTCCTC AAGAGTCTGA GGATCGAGGG
2451 TTGCCCATTG TTCCATCTTG CCACCTAATC CTTACTCCAC TTGAGGGTAT
2501 CACCAGCCCT TCTAGCTCCA TGAAGGTCCC CTGGGCAAGC ACAATCTGAG
2551 CATGAAAGAT GCCCCAGAGG CCTTGGGTGT CATCCACTCA TCATCCAGCA
2601 TCACACTCTG AGGGTGTGGC CAGCACCATG ACGTCATGTT GCTGTGACTA
2651 TCCCTGCAGC GTGCCTCTCC AGCCACCTGC CAACCGTAGA GCTGCCCATC
2701 CTCCTCTGGT GGGAGTGGCC TGCATGGTGC CAGGCTGAGG CCTAGTGTCA
2751 GACAGGGAGC CTGGAATCAT AGGGATCCAG GACTCAAAAG TGCTAGAGAA
2801 TGGCCATATG TCACCATCCA TGAAATCTCA AGGGCTTCTG GGTGGAGGGC
2851 ACAGGGACCT GAACTTATGG TTTCCCAAGT CTATTGCTCT CCCAAGTGAG
2901 TCTCCCAGAT ACGAGGCACT GTGCCAGCAT CAGCCTTATC TCCACCACAT
2951 CTTGTAAAAG GACTACCCAG GGCCCTGATG AACACCATGG TGTGTACAGG
3001 AGTAGGGGGT GGAGGCACGG ACTCCTGTGA GGTCACAGCC AAGGGAGCAT
3051 CATCATGGGT GGGGAGGAGG CAATGGACAG GCTTGAGAAC GGGGATGTGG
3101 TTGTATTTGG TTTTCTTTGG TTAGATAAAG TGCTGGGTAT AGGATTGAGA
3151 GTGGAGTATG AAGACCAGTT AGGATGGAGG ATCAGATTGG AGTTGGGTTA
3201 GATAAAGTGC TGGGTATAGG ATTGAGAGTG GAGTATGAAG ACCAGTTAGG
3251 ATGGAGGATC AGATTGGAGT TGGGTTAGAG ATGGGGTAAA ATTGTGCTCC
3301 GGATGAGTTT GGGATTGACA CTGTGGAGGT GGTTTGGGAT GGCATGGCTT
3351 TGGGATGGAA ATAGATTTGT TTTGATGTTG GCTCAGACAT CCTTGGGGAT
3401 TGAAGTGGGG ATGAAGCTGG GTTTGATTTT GGAGGTAGAA GACGTGGAAG
3451 TAGCTGTCAG ATTTGACAGT GGCCATGAGT TTTGTTTGAT GGGGAATCAA

Fig.1(Cont.)

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3501 ACAATGGGGG AAGACATAAG GGTTGGCTTG TTAGGTTAAG TTGCGTTGGG
3551 TTGATGGGGT CGGGGCTGTG TATAATGCAG TTGGATTGGT TTGTATTAAA
3601 TTGGGTTGGG TCAGGTTTTG GTTGAGGATG AGTTGAGGAT ATGCTTGGGG
3651 ACACCGGATC CATGAGGTTC TCACTGGAGT GGAGACAAAC TTCCTTTCCA
3701 GGATGAATCC AGGGAAGCCT TAATTCACGT GTAGGGGAGG TCAGGCCACT
3751 GGCTAAGTAT ATCCTTCCAC TCCAGCTCTA AGATGGTCTT AAATTGTGAT
3801 TATCTATATC CACTTCTGTC TCCCTCACTG TGCTTGGAGT TTACCTGATC
3851 ACTCAACTAG AAACAGGGGA AGATTTTATC AAATTCCTTT TTTTTTTTTT
3901 TTTTTTTTGA GACAGAGTCT CACTCTGTTG CCCAGGCTGG AGTGCAGTGG
3951 CGCAGTCTCG GCTCACTGCA ACCTCTGCCT CCCAGGTTCA AGTGATTCTC
4001 CTGCCTCAGC CTCCTGAGTT GCTGGGATTA CAGGCATGCA GCACCATGCC
4051 CAGCTAATTT TTGTATTTTT AGTAGAGATG GGGTTTCACC AATGTTTGCC
4101 AGGCTGGCCT CGAACTCCTG ACCTGGTGAT CCACCTGCCT CAGCCTCCCA
4151 AAGTGCTGGG ATTACAGGCG TCAGCCACCG CGCCCAGCCA CTTTTGTCAA
4201 ATTCTTGAGA CACAGCTCGG GCTGGATCAA GTGAGCTACT CTGGTTTTAT
4251 TGAACAGCTG AAATAACCAA CTTTTTGGA ATTGATGAAA TCTTACGGAG
4301 TTAACAGTGG AGGTACCAGG GCTCTTAAGA GTTCCCGATT CTCTTCTGAG
4351 ACTACAAATT GTGATTTTGC ATGCCACCTT AATCTTTTTT TTTTTTTTTT
4401 TAAATCGAGG TTTCAGTCTC ATTCTATTTT CCAGGCTGGA GTTCAATAGC
4451 GTGATCACAG CTCACTGTAG CCTTGAACTC CTGGCCTTAA GAGATTCTCC
4501 TGCTTCGGTC TCCCAATAGC TAAGACTACA GTAGTCCACC ACCATATCCA
4551 GATAATTTTT AAATTTTTTG GGGGGCCGGG CACAGTGGCT CACGCCTGTA
4601 ATCCCAACAC CATGGGAGGC TGAGATGGGT GGATCACGAG GTCAGGAGTT

Fig.1 (Cont.)

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4651 TGAGACCAGC CTGACCAACA TGGTGAACT CTGTCTCTAC TAAAAAAAAA
4701 AAAAATAGAA AAATTAGCCG GCGGTGGTGG CACACGGCAC CTGTAATCCC
4751 AGCTACTGAG GAGGCTGAGG CAGGAGAATC ACTTGAACCC AGAAGGCAGA
4801 GGTGCAATG AGCCGAGATT GCGCCACTGC ACTCCAGCCT GGGTGACAGA
4851 GTGAGACTCT GTCTCAAAA AAAAAAATTT TTTTTTTTTT TTTGTAGAGA
4901 TGGATCTTGC TTTGTTTCTC TGGTTGGCCT TGAACCTCTG GCTTCAAGTG
4951 ATCCTCCTAC CTTGGCCTCG GAAAGTGTTG GGATTACAGG CGTGAGCCAC
5001 CATGACTGAC CTGTCGTTAA TCTTGAGGTA CATAAACCTG GCTCCTAAAG
5051 GCTAAAGGCT AAATATTTGT TGGAGAAGGG GCATTGGATT TTGCATGAGG
5101 ATGATTCTGA CCTGGGAGGG CAGGTCAGCA GGCATCTCTG TTGCACAGAT
5151 AGAGTGTACA GGTCTGGAGA ACAAGGAGTG GGGGGTTATT GGAATTCCAC
5201 ATTGTTTGCT GCACGTTGGA TTTTGAAATG CTAGGGAACCT TTGGGAGACT
5251 CATATTTCTG GGCTAGAGGA TCTGTGGACC ACAAGATCTT TTTATGATGA
5301 CAGTAGCAAT GTATCTGTGG AGCTGGATTC TGGGTGGGA GTGCAAGGAA
5351 AAGAATGTAC TAAATGCCAA GACATCTATT TCAGGAGCAT GAGGAATAAA
5401 AGTTCTAGTT TCTGGTCTCA GAGTGGTGCA GGGATCAGGG AGTCTCACAA
5451 TCTCCTGAGT GCTGGTGTCT TAGGGCACAC TGGGTCTTGG AGTGCAAAGG
5501 ATCTAGGCAC GTGAGGCTTT GTATGAAGAA TCGGGGATCG TACCCACCCC
5551 CTGTTTCTGT TTCATCCTGG GCATGTCTCC TCTGCCTTTG TCCCCTAGAT
5601 GAAGTCTCCA TGAGCTACAG GGCCTGGTGC ATCCAGGGTG ATCTAGTAAT
5651 TGCAGAACAG CAAGTGCTAG CTCTCCCTCC CCTTCCACAG CTCTGGGTGT
5701 GGGAGGGGGT TGTCCAGCCT CCAGCAGCAT GGGGAGGGCC TTGGTCAGCC
5751 TCTGGGTGCC AGCAGGGCAG GGGCGGAGTC CTGGGGAATG AAGGTTTTAT
5801 AGGGCTCCTG GGGGAGGCTC CCCAGCCCCA AGCTTACCAC CTGCACCCGG

Fig.1 (Cont.)

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5851 AGAGCTGTGT CACCATGTGG GTCCCGGTTG TCTTCCTCAC CCTGTCCGTG
5901 ACGTGGATTG GTGAGAGGGG CCATGGTTGG GGGGATGCAG GAGAGGGAGC
5951 CAGCCCTGAC TGTCAAGCTG AGGCTCTTTC CCCCCCAACC CAGCACCCCA
6001 GCCCAGACAG GGAGCTGGGC TCTTTTCTGT CTCTCCCAGC CCCACTCCAA
6051 GCCCATACCC CCAGCCCCTC CATATTGCAA CAGTCCTCAC TCCCACACCA
6101 GGTCCCCGCT CCCTCCCCTT TACCCAGAA CTTTCTCCCC ATTTGCCCAG
6151 CCAGCTCCCT GCTCCCAGCT GCTTTACTAA AGGGGAAGTT CCTGGGCATC
6201 TCCGTGTTTC TCTTTGTGGG GCTCAAACC TCCAAGGACC TCTCTCAATG
6251 CCATTGGTTC CTTGGACCGT ATCACTGGTC CACCTCCTGA GCCCCTCAAT
6301 CCTATCACAG TCTACTGACT TTTCCATTCA GCTGTGAGTG CCAACCCTA
6351 TCCCAGAGAC CTTGATGCTT GGCCTCCCAA TCTTGCCCTA GGATACCCAG
6401 ATGCCAACCA GACACCTCCT TCTTCCTAGC CAGGCTATCT GGCTGAGACA
6451 ACAAATGGGT CCCTCAGTCT GGCAATGGGA CTCTGAGAAC TCCTCATTC
6501 CTGACTCTTA GCCCCAGACT CTTCAATCAG TGGCCACAT TTTCTTAGG
6551 AAAACATGA GCATCCCCAG CCACAACCTGC CAGCTCTCTG ATTCCCCAAA
6601 TCTGCATCCT TTTCAAACC TAAAAACAAA AAGAAAAACA AATAAAACAA
6651 AACCAACTCA GACCAGAACT GTTTTCTCAA CCTGGGACTT CCTAAACTTT
6701 CCAAAACCTT CCTCTTCCAG CAACTGAACC TCCCGATAAG GCACTTATCC
6751 CTGGTTCCTA GCACCGCTTA TCCCTCAGA ATCCACAACT TGTACCAAGT
6801 TTCCCTTCTC CCAGTCCAAG ACCCCAAATC ACCACAAAGG ACCCAATCCC
6851 CAGACTCAAG ATATGGTCTG GGGCTGTCTT GTGTCTCCTA CCCTGATCCC
6901 TGGGTTCAAC TCTGTCCCAG AGCATGAAGC CTCTCCACCA GCACCAGCCA
6951 CCAACCTGCA AACCTAGGGA AGATTGACAG AATTCCCAGC CTTTCCCAGC

Fig.1 (Cont.)

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7001 TCCCCCTGCC CATGTCCCAG GACTCCCAGC CTTGGTTCTC TGCCCCCGTG
7051 TCTTTTCAAA CCCACATCCT AAATCCATCT CCTATCCGAG TCCCCCAGTT
7101 CCTCCTGTCA ACCCTGATTC CCCTGATCTA GCACCCCCTC TGCAGGTGCT
7151 GCACCCCTCA TCCTGTCTCG GATTGTGGGA GGCTGGGAGT GCGAGAAGCA
7201 TTCCCAACCC TGGCAGGTGC TTGTGGCCTC TCGTGGCAGG GCAGTCTGCG
7251 GCGGTGTTCT GGTGCACCCC CAGTGGGTCC TCACAGCTGC CCACTGCATC
7301 AGGAAGTGAG TAGGGGCCTG GGGTCTGGGG AGCAGGTGTC TGTGTCCAGA
7351 GGAATAACAG CTGGGCATTT TCCCCAGGAT AACCTCTAAG GCCAGCCTTG
7401 GGAAGTGGGG AGAGAGGGAA AGTTCTGGTT CAGGTCACAT GGGGAGGCAG
7451 GGTGTTGGGCT GGACCACCCT CCCCATGGCT GCCTGGGTCT CCATCTGTGT
7501 TCCTCTATGT CTCTTTGTGT CGCTTTCATT ATGTCTCTTG GTAACTGGCT
7551 TCGGTGTGT CTCTCCGTGT GACTATTTTG TTCTCTCTCT CCCTCTCTTC
7601 TCTGTCTTCA GTCTCCATAT CTCCCCCTCT CTCTGTCCTT CTCTGGTCCC
7651 TCTCTAGCCA GTGTGTCTCA CCCTGTATCT CTCTGCCAGG CTCTGTCTCT
7701 CGGTCTCTGT CTCACCTGTG CTTCTCCCT ACTGAGCACA CGCATGGGAT
7751 GGGCCTGGGG GGACCCTGAG AAAAGGAAGG GCTTTGGCTG GGCGCGGTGG
7801 CTCACACCTG TAATCCCAGC ACTTTGGGAG GCCAAGGCAG GTAGATCACC
7851 TGAGGTCAGG AGTTCGAGAC CAGCCTGGCC AACTGGTGAA ACCCATCTC
7901 TACTAAAAAT ACAAAAAATT AGCCAGGCGT GGTGGGCGCA TGCCTGTAGT
7951 CCCAGCTACT CAGGAGGCTG AGGGAGGAGA ATTGCTTGAA CCTGGGAGGT
8001 GGAGGTTGCA GTGAGCCGAG ACGTGCCACT GCACTCCAGC CTGGGTGACA
8051 GAGTGAGACT CCGCCTCAAA AAAAAAAAAA AAAAAAAGA AAAGAAAAGA
8101 AAAGAAAAGG AAGTGTTTTA TCCCTGATGT GTGTGGGTAT GAGGGTATGA
8151 GAGGGCCCCCT CTCCTCCAT TCCTTCTCCA GGACATCCCT CCACTCTTGG
8201 GAGACACAGA GAAGGGCTGG TTCAGCTGGA GCTGGGAGGG GCAATTGAGG

Fig.1(Cont.)

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8251 GAGGAGGAAG GAGAAGGGGG AAGGAAAACA GGGTATGGGG GAAAGGACCC
8301 TGGGGAGCGA AGTGGAGGAT ACAACCTTGG GCCTGCAGGC CAGGCTACCT
8351 ACCCACTTGG AAACCCACGC CAAAGCCGCA TCTACAGCTG AGCCACTCTG
8401 AGGCCTCCCC TCCCCAGCGG TCCCCACTCA GCTCCAAAGT CTCTCTCCCT
8451 TTTCTCTCCC ACACTCTATC ATCCCCCGGA TTCCTCTCTA CTTGGTTCTC
8501 ATTCTTCCTT TGACTTCCTG CTTCCCTTTC TCATTATCT GTTTCTCACT
8551 TTCTGCCTGG TTTTGTCTT CTCTCTCTCT TTCTCTGGCC CATGTCTGTT
8601 TCTCTATGTT TCTGTCTTTT CTTTCTCATC CTGTGTATTT TCGGCTCACC
8651 TTGTTTGTCA CTGTTCTCCC CTCTGCCCTT TCATTCTCTC TGTCCTTTTA
8701 CCCTCTTCCT TTTTCCCTTG GTTTCTCTCA GTTTCTGTAT CTGCCCTTCA
8751 CCCTCTCACA CTGCTGTTTC CCAACTCGTT GTCTGTATTT TTGGCCTGAA
8801 CATGTGTCTT CCCCAACCCT GTGTTTTTCT CACTGTTTCT TTTTCTCTTT
8851 TGGAGCCTCC TCCTTGCTCC TCTGTCCCTT CTCTCTTTCC TTATCATCCT
8901 CGCTCCTCAT TCCTGCGTCT GCTTCCTCCC CAGCAAAAGC GTGATCTTGC
8951 TGGGTCGGCA CAGCCTGTTT CATCCTGAAG ACACAGGCCA GGTATTTTCA
9001 GTCAGCCACA GCTTCCCACA CCGCTCTAC GATATGAGCC TCCTGAAGAA
9051 TCGATTCCTC AGGCCAGGTG ATGACTCCAG CCACGACCTC ATGCTGCTCC
9101 GCCTGTCAGA GCCTGCCGAG CTCACGGATG CTGTGAAGGT CATGGACCTG
9151 CCCACCCAGG AGCCAGCACT GGGGACCACC TGCTACGCCT CAGGCTGGGG
9201 CAGCATTGAA CCAGAGGAGT GTACGCCTGG GCCAGATGGT GCAGCCGGGA
9251 GCCCAGATGC CTGGGTCTGA GGGAGGAGGG GACAGGACTC CTAGGTCTGA
9301 GGGAGGAGGG CCAAGGAACC AGGTGGGGTC CAGCCCACAA CAGTGTTTTT
9351 TGCCTGGCCC GTAGTCTTGA CCCCAGAGAA ACTTCAGTGT GTGGACCTCC

Fig.1 (Cont.)

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9401 ATGTTATTTT CAATGACGTG TGTGCGCAAG TTCACCCTCA GAAGGTGACC
9451 AAGTTCATGC TGTGTGCTGG ACGCTGGACA GGGGGCAAAA GCACCTGCTC
9501 GGTGAGTCAT CCCTACTCCC AAGATCTTGA GGGGAAAGGT GAGTGGGGAC
9551 CTTAATTCTG GGCTGGGGTC TAGAAGCCAA CAAGCATCTG CCTCCCCTGC
9601 TCCCCAGCTG TAGCCATGCC ACCTCCCCGT GTCTCATCTC ATTCCCTCCT
9651 TCCCTCTTCT TTGACTCCCT CAAGGCAATA GGTATTCTT ACAGCACAAC
9701 TCATCTGTTC CTGCGTTCAG CACACGGTTA CTAGGCACCT GCTATGCACC
9751 CAGCACTGCC CTAGAGCCTG GACATAGCAG TGAACAGACA GAGAGCAGCC
9801 CCTCCCTTCT GTAGCCCCCA AGCCAGTGAG GGGCACAGGC AGGAACAGGG
9851 ACCACAACAC AGAAAAGCTG GAGGGTGTCA GGAGGTGATC AGGCTCTCGG
9901 GGAGGGAGAA GGGGTGGGGA GTGTGACTGG GAGGAGACAT CCTGCAGAAG
9951 GCGGGAGTGA GCAAACACCT GCCGCAGGGG AGGGGAGGGC CTGCGGCACC
10001 TGGGGGAGCA GAGGGAACAG CATCTGGCCA GGCCTGGGAG GAGGGGCCTA
10051 GAGGGCGTCA GGAGCAGAGA GGAGGTTGCC TGGCTGGAGT GAAGGATCGG
10101 GGCAGGGTGC GAGAGGGAAG AAGGACCCCT CCTGCAGGGC CTCACCTGGG
10151 CCACAGGAGG ACACTGCTTT TCCTCTGAGG AGTCAGGAAC TGTGGATGGT
10201 GCTGGACAGA AGCAGGACAG GGCCTGGCTC AGGTGTCCAG AGGCTGCCGC
10251 TGGCCTCCCT ATGGGATCAG ACTGCAGGGA GGGAGGGCAG CAGGGATGTG
10301 GAGGGAGTGA TGATGGGGCT GACCTGGGGG TGGCTCCAGG CATGTGCCCC
10351 ACCTGGGCCC TTACCCAGCC TCCCTCACAG GCTCCTGGCC CTCAGTCTCT
10401 CCCCTCCACT CCATTCTCCA CCTACCCACA GTGGGTCATT CTGATCACCG
10451 AACTGACCAT GCCAGCCCTG CCGATGGTCC TCCATGGCTC CCTAGTGCCC
10501 TGGAGAGGAG GTGTCTAGTC AGAGAGTAGT CCTGGAAGGT GGCCTCTGTG
10551 AGGAGCCACG GGGACAGCAT CCTG

Fig.1 (Cont.)

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MWVPVFLTSLVTWIGAAPLILSRVGGWECEKHSQPWQVLVAS
RGRAYCGGVLVHPQWVLTAAHCIRKCKSVLLGRHSLFHPEDTGQVFQVSHSFPHPLY
DMSLLKNRFLRPGDDSSHDMLLRLEPAELTDAVKVMDLPTQEPALGTTTCYASGWGS
IEPEEFLTPKIKLQCVDLHVISNDVCAQVHPQKVTKFMCLCAGRWTGGKSTCSGDSGGPI
VCNGVLQGITSWGSEPCALPERPSLYTKVHYRKYKWKIDTIVANP

Fig. 2

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```

50
1      MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
      psal_1
      MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
      psal_2
      ~~~~~
      psal_0
      MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
      humpsantig
      MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
      psal_5
      MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
      psal_6

100
51      LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
      psal_1
      LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
      psal_2
      ~~~~~
      psal_0
      LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
      humpsantig
      LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
      psal_5
      LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
      psal_6

150
101     QPQAYHLHPE SCVTMWVPVW FLTLSVTWIG ERHGWGDAG EGASPDCCQAE
      psal_1
      QPQAYHLHPE SCVTMWVPVW FLTLSVTWIG ERHGWGDAG EGASPDCCQAE
      psal_2
      ~~~~~
      psal_0
      QPQAYHLHPE SCVTMWVPVW FLTLSVTWIG ERHGWGDAG EGASPDCCQAE
      humpsantig
      QPQAYHLHPE SCVTMWVPVW FLTLSVTWIG ERHGWGDAG EGASPDCCQAE
      psal_5
      QPQAYHLHPE SCVTMWVPVW FLTLSVTWIG ERHGWGDAG EGASPDCCQAE
      psal_6

```

Fig. 3

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```

151      200
psal_1  ALSPPTQHPS PDRELGSFELS LPAPLQ.... ...AHTPSPS ILQQSSSLPHQ
psal_2  ALSPPTQHPS PDRELGSFELS LPAPLQ.... ...AHTPSPS ILQQSSSLPHQ
psal_0  ALSPPTQHPS PDRELGSFELS LPAPLQ.... ...AHTPSPS ILQQSSSLPHQ
humpsantig  ALSPPTQHPS PDRELGSFELS LPAPLQ.... ...AHTPSPS ILQQSSSLPHQ
psal_5  ALSPPTQHPS PDRELGSFELS LPAPLQLPAP SCL~~~~~~
psal_6  .....

201      250
psal_1  VPAPSHLPQN FLPIAQAPAPC SQLLY~~~~~~
psal_2  VPAPSHLPQN FLPIAQAPAPC SQLLY~~~~~~
psal_0  VPAPSHLPQN FLPIAQAPAPC SQLLY~~~~~~
humpsantig  VPAPSHLPQN FLPI..... CPASS LLPAALLK GK FLGISVFLFV
psal_5  ~~~~~~
psal_6  .....

251      300
psal_1  ~~~~~~
psal_2  ~~~~~~
psal_0  ~~~~~~
humpsantig  GLKTSKDLSQ CHWFLGPYHW STS~~~~~~
psal_5  ~~~~~~
psal_6  ..... AAPLILS RIVGWECEK HSQPWQVLVA

```

Fig. 3(Cont.)

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```
301          ~~~~~ 350
psal_1      ~~~~~
psal_2      ~~~~~
psal_0      ~~~~~
humpsantig ~~~~~
psal_5      ~~~~~
psal_6      ~~~~~
SRGRAVCGV LVHPQWVLT AHCIRNKSVI LLGRHSLFHP EDTGQVFQVS
351          ~~~~~ 400
psal_1      ~~~~~
psal_2      ~~~~~
psal_0      ~~~~~
humpsantig ~~~~~
psal_5      ~~~~~
psal_6      ~~~~~
HSFPHPLYDM SLLKNRFLRP GDDSSHDLM LRLSEPAELT DAVKVMIDLPT
401          ~~~~~ 450
psal_6      ~~~~~
QEPALGTCY ASGWGSIEPE EFLTPKKLQC VDLHVISNDV CAQVHPQKVT
451          ~~~~~ 500
psal_6      ~~~~~
KFMLCAGRWT GGKSTCSGDS GGPLVCNGVL QGITSWGSEP CALPERPSLY
501          ~~~~~ 518
psal_6      ~~~~~
TKVVHYRKWI KDTIVANP
```

Fig. 3(Cont.)

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```

50
1 MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
psal_1 MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
psal_2 MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
psal_0 ~~~~~ LVIAEQQVLA
humpsantig MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
psal_5 MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA
psal_6 MKNRGSYPPP VSVSSWACLL CLCPLDEVSM SYRAWCIQGD LVIAEQQVLA

100
51 LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
psal_1 LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
psal_2 LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
psal_0 ~~~~~ GFIGLLGEAP
humpsantig LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
psal_5 LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP
psal_6 LPPLPQLWVW EGVVQPPAAW GGPWSASGCQ QGRGGVLGNE GFIGLLGEAP

150
101 QPQAYHLHPE SCVTMWVPVV FLTLSVTWIG ERGHGWGDAG EGASPDCCQAE
psal_1 QPQAYHLHPE SCVTMWVPVV FLTLSVTWIG ERGHGWGDAG EGASPDCCQAE
psal_2 QPQAYHLHPE SCVTMWVPVV FLTLSVTWIG ERGHGWGDAG EGASPDCCQAE
psal_0 ~~~~MWVPVV FLTLSVTWIG ERGHGWGDAG EGASPDCCQAE
humpsantig QPQAYHLHPE SCVTMWVPVV FLTLSVTWIG ERGHGWGDAG EGASPDCCQAE
psal_5 QPQAYHLHPE SCVTMWVPVV FLTLSVTWIG ERGHGWGDAG EGASPDCCQAE
psal_6 QPQAYHLHPE SCVTMWVPVV FLTLSVTWIG .....

```

Fig. 4

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```

151      200
psal_1      ALSPPTQHPS PDRELGSFSL LPAPLQ..... AHTPSPS ILQSSSLPHQ
psal_2      ALSPPTQHPS PDRELGSFSL LPAPLQ..... AHTPSPS ILQSSSLPHQ
psal_0      ALSPPTQHPS PDRELGSFSL LPAPLQ..... AHTPSPS ILQSSSLPHQ
humpsantig  ALSPPTQHPS PDRELGSFSL LPAPLQ..... AHTPSPS ILQSSSLPHQ
psal_5      ALSPPTQHPS PDRELGSFSL LPAPLQLPAP SCL~~~~~
psal_6      .....
201      250
psal_1      VPAPSHLPQN FLPIAQAPC SALLY~~~~~
psal_2      VPAPSHLPQN FLPIAQAPC SALLY~~~~~
psal_0      VPAPSHLPQN FLPIAQAPC SALLY~~~~~
humpsantig  VPAPSHLPQN FLPI..... CPASS LLPAALLKCK FLGISVFLFV
psal_5      ~~~~~
psal_6      .....
251      300
psal_1      ~~~~~
psal_2      ~~~~~
psal_0      ~~~~~
humpsantig  GLKTSKDLQ CHWFLGPYHW STS~~~~~
psal_5      ~~~~~
psal_6      ..... AAPLILS RIVGWECEK HSQPWQVLVA

```

Fig. 4 (Cont.)

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```
301      ~~~~~ 350
psal_1      ~~~~~
psal_2      ~~~~~
psal_0      ~~~~~
humpsantig  ~~~~~
psal_5      ~~~~~
psal_6      ~~~~~
SRGRAVCGGV LVHPQWVLT AHCIRNKSVI LLGRHSLFHP EDTGQVFQVS
351
psal_1      ~~~~~
psal_2      ~~~~~
psal_0      ~~~~~
humpsantig  ~~~~~
psal_5      ~~~~~
psal_6      ~~~~~
HSFPHPLYDM SLLKNRFLRP GDDSSHDLM LRLSEPAELT DAVKVMDLPT
401
psal_6      ~~~~~
QEPALGTTTCY ASGWGSIEPE EFLTPKKLQC VDLHVISNDV CAQVHPQKVT
450
psal_6      ~~~~~
KFMLCAGRWT GGKSTCSGDS GGPLVCNGVL QGITSWGSEP CALPERPSLY
500
psal_6      ~~~~~
501      ~~~~~
psal_6      ~~~~~
518      ~~~~~
psal_6      ~~~~~
KDTIVANP
```

Fig. 4 (Cont.)

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```
1 MWDLVLSIALSVGCTGEI 18
  ||||| :
1 MWDLVLSIALSVGCTGAV 18
```

Fig. 5

PSALM

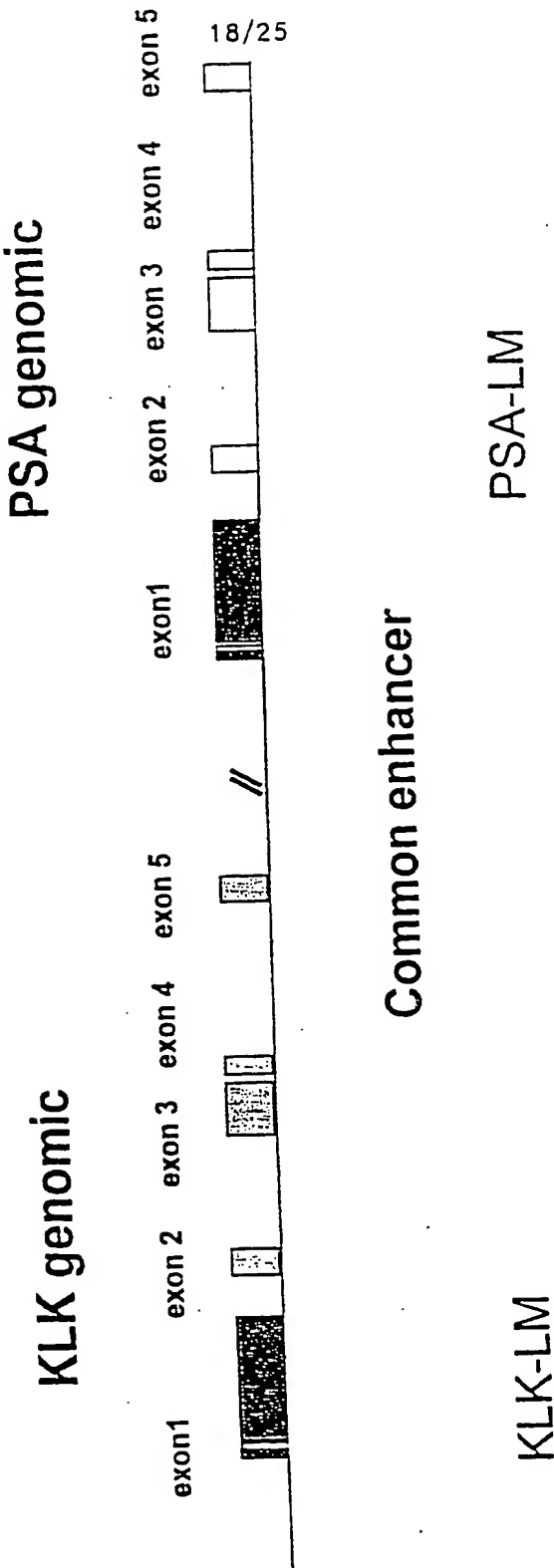


Fig. 6

Northern blot analysis:

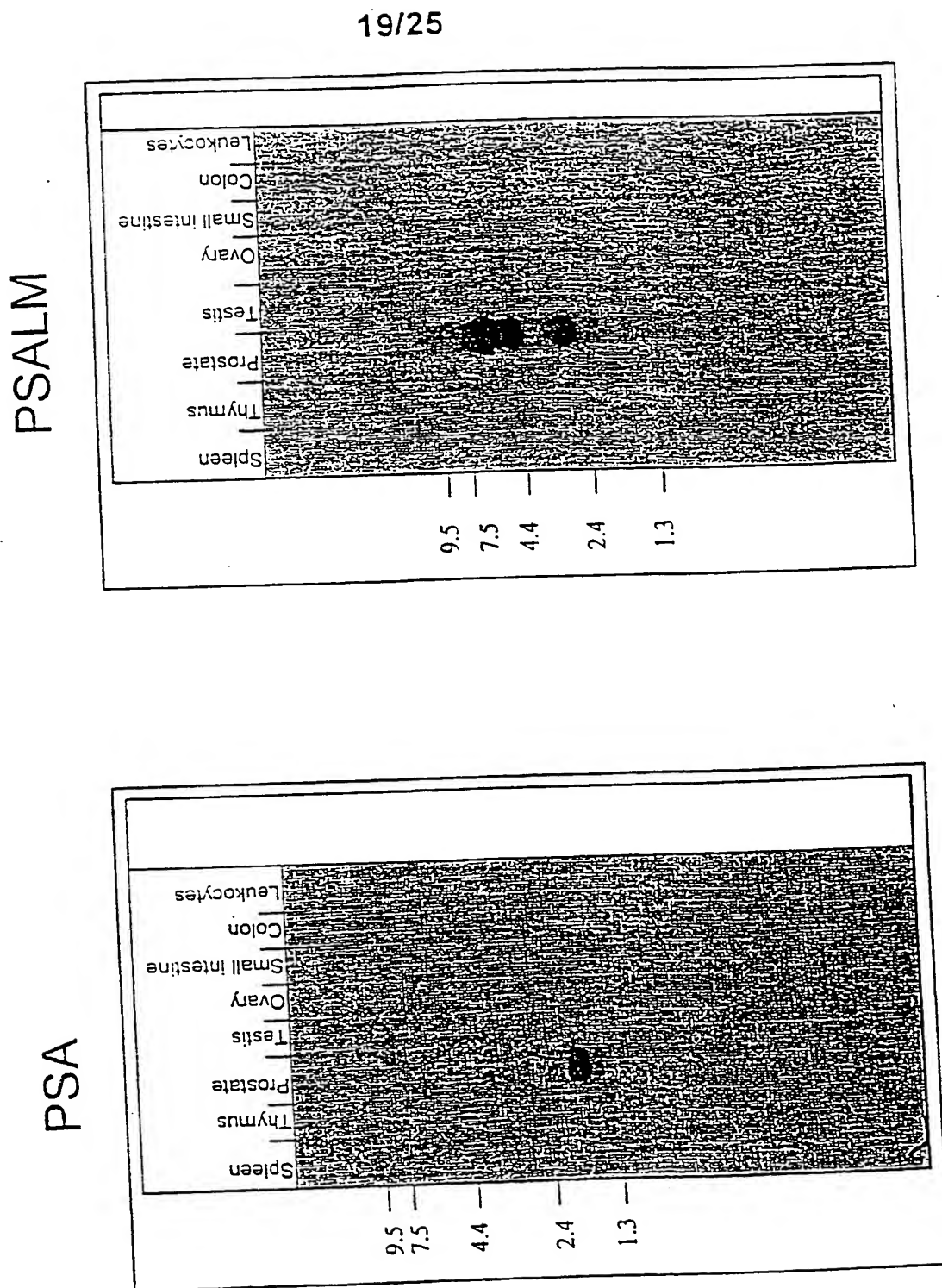


Fig. 7

Western blot analysis

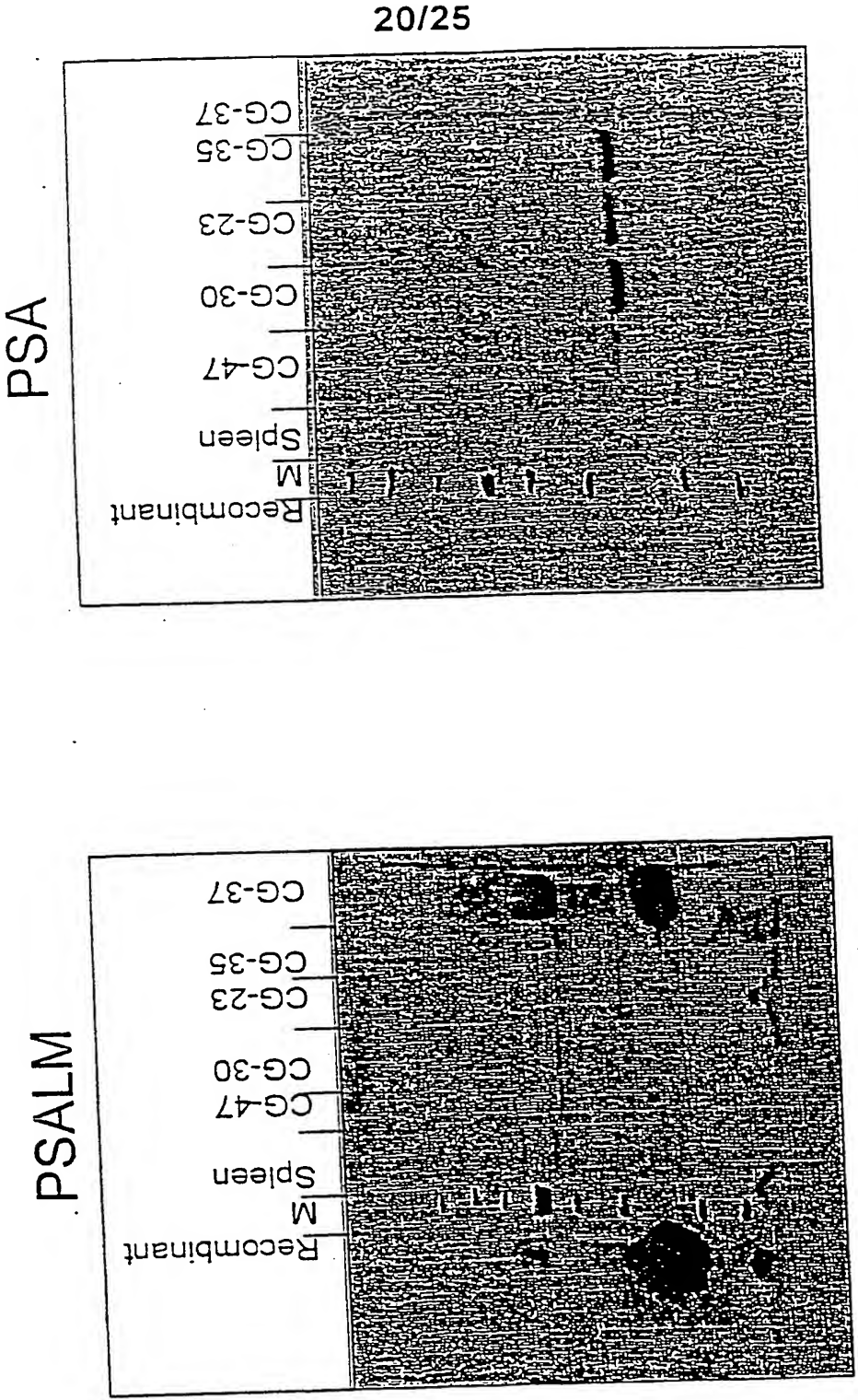
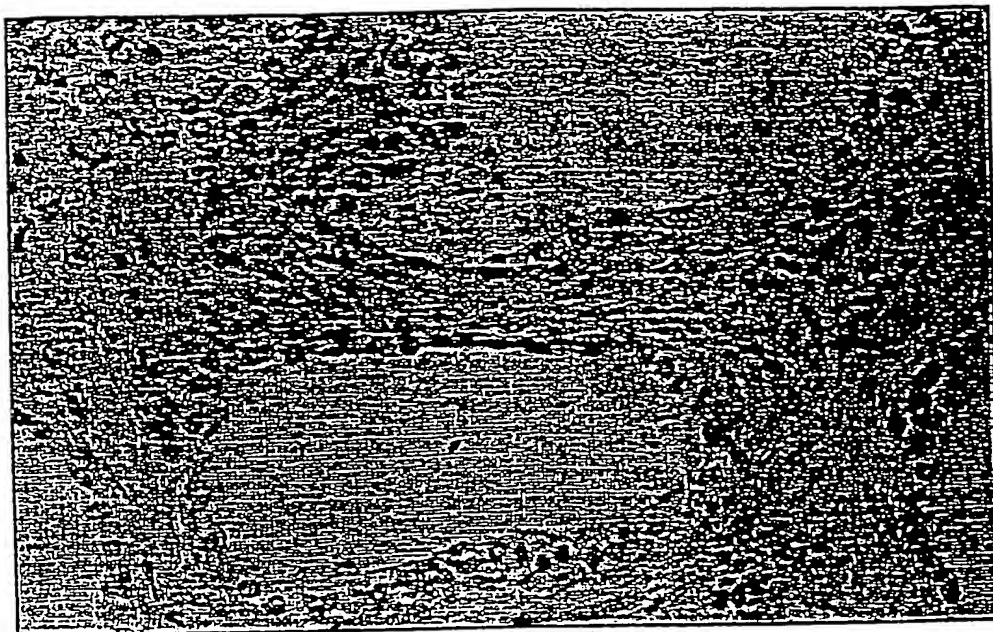


Fig. 8

PSALM

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Immune serum



Pre-immune serum

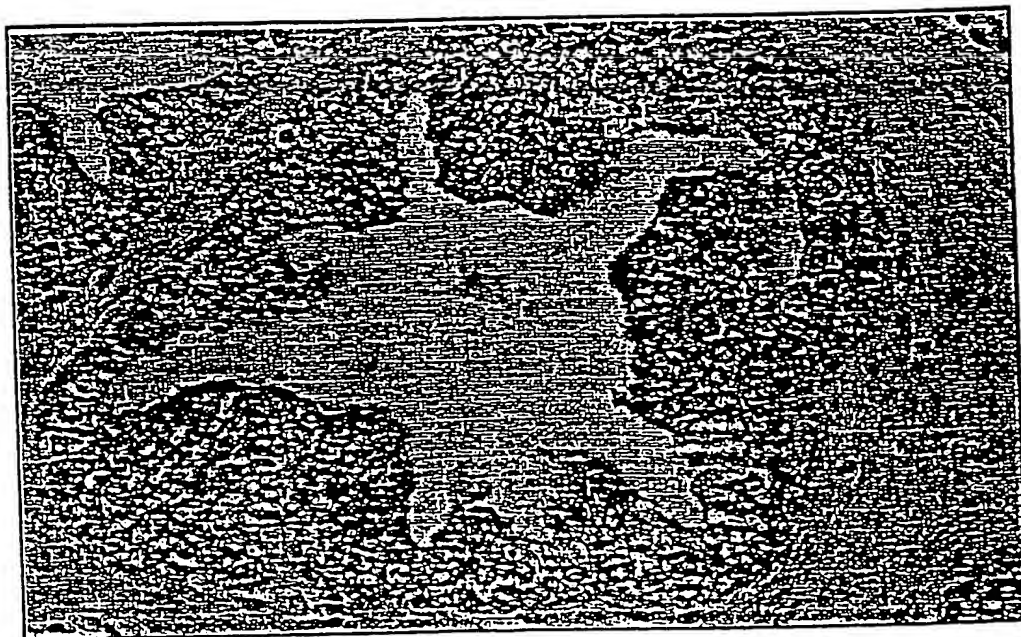
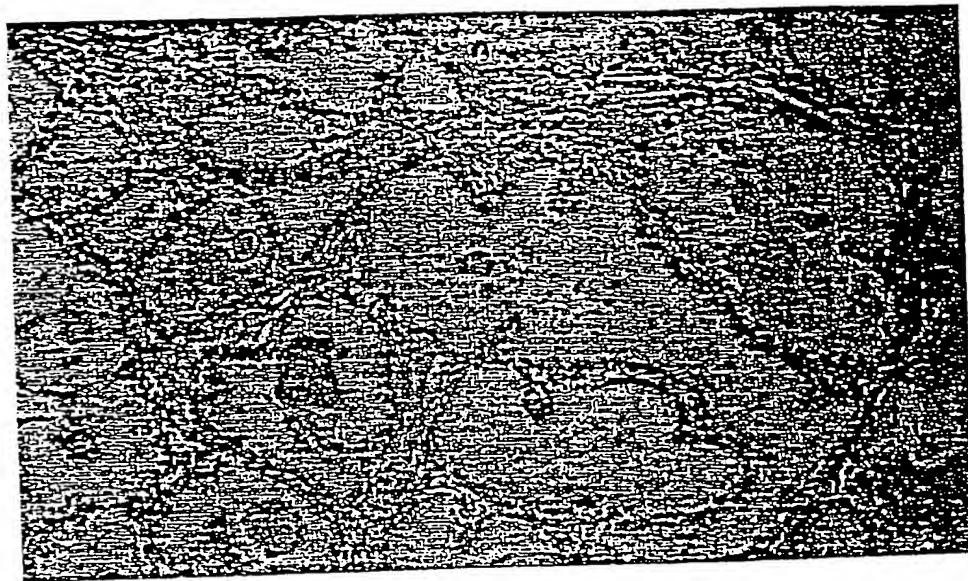


Fig. 9

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PSALM

Sense



Anti-Sense



Fig. 10

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Western blot - anti PSALM

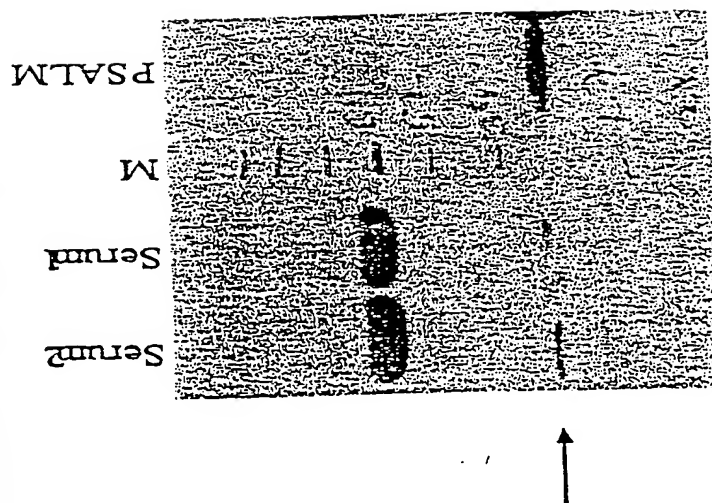
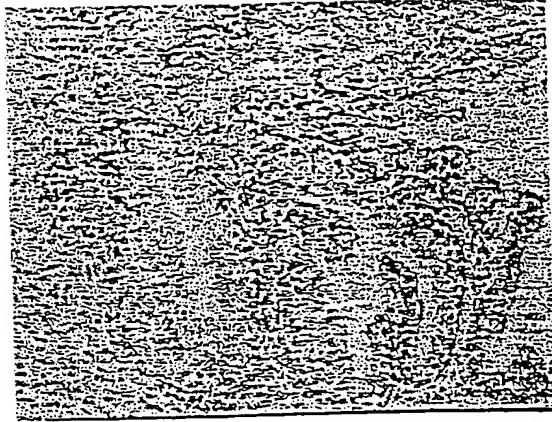


Fig. 11

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KLM

Immune serum



Pre-immune serum



Fig. 12

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Western blot - anti KLM

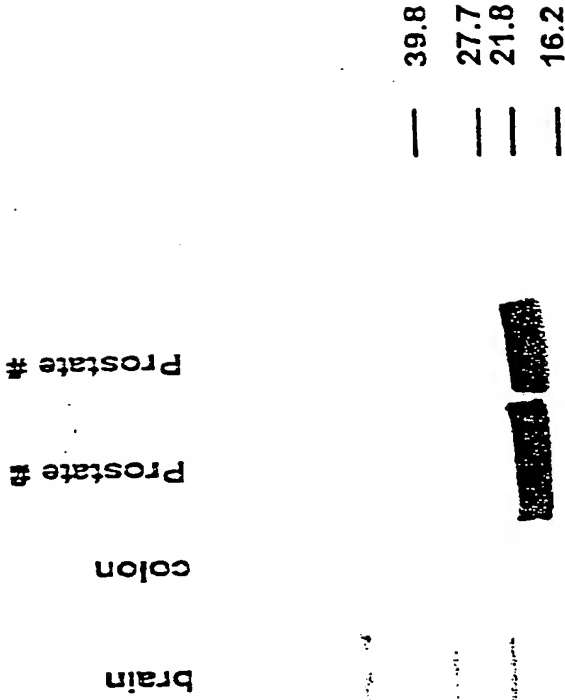


Fig. 13